

CITY OF MOUNT VERNON



ENGINEERS REPORT

JANUARY 2014

STREET PROJECTS FOR 2014

SEVENTH STREET FROM EIGHTH AVENUE NW TO FIFTH AVENUE NW

The scope of the project design is:

Complete removal of the existing seal coat surface and P.C.C. curb and gutter.

Core out existing natural sub-base, compact, construct, and construct a 6" drainable granular sub-base longitudinal sub drain.

Replace existing 4" CIP water main with a new 8" PVC waterman, valves, and fire hydrants.

Construct a new P.C.C. pavement with full 6" curb and gutter.

Sidewalk replacement that is necessary due to grade adjustment and intersection replacement will be included in the project. Necessary sidewalk repairs not generated from this project will be left to the property owners.

Sanitary sewer televising has been ordered in the alleys to help determine what repair work may be necessary to include in the project.

Survey boundary work has been ordered to determine the street right of way limits.

FIFTH AVENUE NW FROM FIRST STREET NW TO EIGHTH STREET NW

The existing pavement is most P.C.C. concrete, most likely 6" thick on natural sub-grade. Although the pavement from First Street to Second Street is generally structurally sound, cracking displacement and sprawling have decreased the level of service to a marginal or poor condition. An asphalt (HMA) overlay could economically bring the pavement surface to a much more acceptable level of service and extend existing pavement service life while avoiding the cost and headaches of a full depth reconstruction.

The remaining pavement is in need of patching and curb repair prior to cracking, seating and HMA overlay.

Proposed scope of the project design is:

New 6" PVC water main installed longitudinally in the parking area.

Storm and sanitary structure replacement where necessary.

Full depth patching where needed.

Cracking and seating the entire area of the P.C.C. pavement except the curb and gutter.

2" to 3" Asphalt (HMA) overlay on engineering fabric.

THIRD AVENUE NW FROM FIRST STREET NW TO SEVENTH STREET NW

The existing pavement is most P.C.C. concrete, most likely 6" thick on natural sub-grade. Although the pavement from First Street to Second Street is generally structurally sound, cracking displacement and sprawling have decreased the level of service to a marginal or poor condition. An asphalt (HMA) overlay could economically bring the pavement surface to a much more acceptable level of service and extend existing pavement service life while avoiding the cost and headaches of a full depth reconstruction.

Storm structure replacement where necessary.

Full depth patching where needed.

Cracking and seating the entire area of the P.C.C. pavement except the curb and gutter.

2" to 3" Asphalt (HMA) overlay on engineering fabric.

TRAFFIC SIGNAL REPLACEMENT

Preliminary discussions have taken place with an electrical contractor and the IDOT District 6 office to determine the procedure for getting the four traffic signals replaced at the intersection of Iowa Highway 1 and First Street. The proposed scope of the project is to include:

Removal of the existing signals and electrical wiring.

Removal of the sidewalk area concrete

New wiring for the signals.

New Sidewalks, possibly including amenities such as P.C.C. pavers.

NEW WATER WELL

Preliminary discussions were held with a well contractor and the Iowa Geological survey regarding the possibility of a new Silurian well at either Bryant Park or Memorial Park. A request will be made to the Iowa Geological survey to model both proposed locations to offer opinions regarding the feasibility and projected yield at these locations. Once a preferred site has been determined, construction permit forms will be submitted to IDNR Water Supply section.

